



UNIVERSITI MALAYSIA SARAWAK

Faculty of Medicine and Health Sciences

FINAL PROFESSIONAL EXAMINATION
MD Degree

Session 2004/2005

OBJECTIVE STRUCTURED CLINICAL EXAMINATION (OSCE)

April 2005

Time: 2 hours 30 minutes

Date : Tuesday, 26 April, 2005
Time : 8:30 a.m. – 11:00 a.m. [1st session]
11:30 a.m. – 2:00 p.m. [2nd session]
Venue : FPSK, UNIMAS, Lot 77, Kuching

INSTRUCTIONS:

- 1. There are TWENTY (20) Stations.**
- 2. The time to be spent at each station is FIVE (5) minutes.**
Write your answer clearly in the space provided. DO NOT write outside the space.
Write your Student No. on every page.
No part of this examination booklet should be taken away from the examination room.
Please fill in your attendance sheet.

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P.KHIDMAT MAKLUMAT AKADEMIK
UNIMAS

UNIVERSITI MALAYSIA SARAWAK
Faculty of Medicine and Health Sciences



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Final Professional Examination
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OSCE

Student No.: _____

Station No.: 1

This is the photograph of the hand of two-year-old Leena who was admitted with fever and ulcers in her mouth for two days. She has lesions similar to the ones in the photograph in her feet as well.

Study this exhibit carefully and answer the following questions.

1.1 Describe the lesions seen on Leena's hand.

(2 marks)

1.2 State the most likely diagnosis of Leena's condition.

(2 marks)

1.3 State ONE aetiological agent responsible for Leena's illness.

(2 marks)

1.4 List TWO likely complications that Leena might develop.

(2 marks)

(i) _____

(ii) _____

1.5 Discuss briefly the principles of management of Leena's condition.

(2 marks)

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Station No.: 2

A 56-year-old man complained of pain at the back of the right ankle, and inability to walk properly for 4 months following missing footstep while climbing a staircase. He was actively involved in playing golf.

Examination revealed defect as shown in the photograph.

2.1 What is the diagnosis?

(2 marks)

2.2 State TWO functional disabilities in this patient resulting in the above problem.

(2 marks)

(i) _____

(ii) _____

2.3 Name ONE important clinical test that is performed to help in the diagnosis, and describe how it is done.

(4 marks)

2.4 What is the best mode of treatment for this patient's problem?

(2 marks)

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Student No.: _____

Station No.: 3

Displayed is the picture of the right hand of a 65-year-old man who developed acute severe pain of small joints of this hand followed by the acute condition (shown in the picture) after starting frusemide tablets for his congestive cardiac failure. He gave 10 years' history of joints pains once or twice a year which used to subside by taking NSAIDS for 4-5 days.

3.1 State THREE abnormalities seen in his right hand.

(3 marks)

- (i) _____
- (ii) _____
- (iii) _____

3.2 State the most likely diagnosis and give reasons.

(2 marks)

3.3 List TWO investigations, which are helpful to confirm the diagnosis.

(2 marks)

- (i) _____
- (ii) _____

3.4 List FOUR most relevant management plans for this patient.

(3 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

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Station No.: 4

Mr. AM is a 48-year-old man who came to Sarawak General Hospital with cough, occasional blood-stained sputum, loss of appetite, loss of weight and night sweats for the past six weeks. His recent chest X-ray is displayed.

4.1 List **TWO** features to suggest that this chest X-ray is a PA view.

(2 marks)

- (i) _____
- (ii) _____

4.2 List **THREE** radiological abnormalities seen on the chest X-ray.

(3 marks)

- (i) _____
- (ii) _____
- (iii) _____

4.3 Name **TWO** other relevant radiological investigations for this patient.

(2 marks)

- (i) _____
- (ii) _____

4.4 Give **THREE** differential diagnoses.

(3 marks)

- (i) _____
- (ii) _____
- (iii) _____

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OSCE

Station No.: 5

INTERACTIVE STATION

Instructions to the candidate

Mr. Yeo suddenly collapsed in the house and has been brought unconscious to the Accident and Emergency Department. The accompanying relatives say that he had vomited twice on the way to the hospital.

You are to demonstrate on the manikin how you would perform a CPR.

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Student No.: _____

Station No.: 5

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Call for help.	1	
2.	Airway: Look for any response by shouting, "Are you all right?"	1	
3.	Open mouth and maintain airway with jaw thrust/chin lift/head extension.	2	
4.	Breathing: Look at the lips while watching the chest.	1	
5.	Circulation: Feel carotid pulse for 5 seconds: if absent begin external cardiac massage. Place one hand on top of the other at the lower end of the sternum and give sharp compression to depress 3-4 cm each time. If alone, for every 15 compressions, 2 breaths.	5	
	Total =	10	

Comments: _____

Name of Examiner : _____

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OSCE

Station No.: 6

INTERACTIVE STATION

Instructions to the candidate

This 50-year-old man is diagnosed to have effort angina.

Briefly assess him for coronary risk factors and suggest three investigations you would like to do. Give a running commentary for the examiner.

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Student No.: _____

Station No.: 6

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Take history of diabetes, smoking, family history.	2	
2.	Measure blood pressure. Ask about history of hypertension.	3	
3.	Look for xanthomas, xanthelasma, corneal arcus.	3	
4.	Investigations: Suggest two. (FBS, Fasting lipid profile, echocardiogram, ECG for LVH).	2	
	Total =	10	

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OSCE

Station No.: 7 **INTERACTIVE STATION**

Instructions to the candidate

Madam SH is a 45-year-old Malay teacher, Para 3 presented with uterine fibroid. She is planned for a total abdominal hysterectomy.

Please counsel her and take consent.

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OSCE

Station No.: 7

INTERACTIVE STATION

Instructions to the patient

You are Madam SH 45-year-old teacher with three children who have uterine fibroid and will undergo total abdominal hysterectomy (removal of the womb).

You are very anxious about the surgery and its complications.

You may ask her/him the following questions: (if students are not forth-coming)

- 1. What is total abdominal hysterectomy?**
- 2. Why I need to undergo this operation?**
- 3. Is there any other mode of treatment for my problems?**
- 4. How about my ovaries, are they going to remove them as well?**
- 5. What are the complications of this surgery?**

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Student No.: _____

Station No.: 7

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Introduction – introduction of self.	1	
2.	Eye contact & rapport – proper eye contact and able to build rapport with patient.	1	
3.	Use of “lay-man” term.	1	
4.	Knowledge assessment i. Explain other modes of treatment. ii. Explain why TAH is the choice of treatment. iii. Discuss whether the ovaries are removed. iv. Discuss the possible risks and complications. Discuss whether she needs hormone replacement therapy.	1 1 1 2	
5.	Counselling assessment (by the simulated patient) i. Able to allay patient anxiety. ii. Satisfied with candidate explanation. iii. Confidence with candidate.	0.5 0.5 1	
	Total =	10	

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Station No.: 8

INTERACTIVE STATION

Instructions to the candidate

This patient presents with signs and symptoms of agoraphobia.

Please proceed to elicit the relevant findings in the history of present illness from the patient.

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Student No.: _____

Station No.: 8

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Introduction.	1.5	
2.	Points to cover: i. Duration of symptoms. ii. Situations. iii. Anxiety symptoms. iv. History of treatment. v. Impairment of functions and distress.	2 1 1 1 2	
3.	Ending.	1.5	
	Total =	10	

Comments:

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OSCE

INTERACTIVE STATION

Outline the management priorities on the scene.

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Student No.: _____

Station No.: 9

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Assess & control the scene for the safety of the patient and the pre-hospital priorities.	2	
2.	Arrest external haemorrhage with direct pressure.	1	
3.	Protect the spine after blunt trauma.	1	
4.	Clear the airway of obstruction & provide oxygen.	2	
5.	Extricate the patient.	1	
6.	Stabilize any bony fractures.	1	
7.	Intravenous fluids.	1	
8.	(May ask about complications of missed tracheal intubation.)	1	
	Total =	10	

Comments:

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Station No.: 10

INTERACTIVE STATION

Instructions to the candidate

This patient has been diagnosed as having chronic schizophrenia.

Please proceed to assess his mental state.

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Student No.: _____

Station No.: 10

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Introduction.	1.5	
2.	Points to cover: i. Appearance and behaviour. ii. Talk. iii. Mood. iv. Thought content. v. Perceptual disturbance. vi. Insight.	1 1 1 1 2 1	
3.	Ending.	1.5	
	Total =	10	

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Student No.: _____

Station No.: 11

This X-ray belongs to a 30-year-old man. He was involved in a road traffic accident NINE months before these X-rays were taken. At present, he is still unable to bear weight on the involved limb. There is also mobility at the fracture site.

11.1 Describe the abnormal radiological features seen.

(4 marks)

11.2 What is the patient's present problem?

(2 marks)

11.3 State **TWO** common local causes that can lead to this patient's problem.

(2 marks)

(i) _____

(ii) _____

11.4 What is the treatment?

(2 marks)

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Student No.: _____

Station No.: 12

Exhibit A

12.1 Identify the bone and type of fracture according to its site.

(2 marks)

12.2 State **FOUR** clinical features that can arise with the above fracture.

(2 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

12.3 State **TWO** nerves that are likely to be affected in this fracture.

(2 marks)

- (i) _____
- (ii) _____

12.4 (a) Name the nerve that is most frequently injured in the fracture.

(1 mark)

(b) State the deformity that results from this nerve injury.

(1 mark)

12.5 In which age group does this fracture commonly occur? State your reason.

(2 marks)

OSCE

Student No.: _____

Station No.: 13

This patient had right eye surgery done 4 days ago. She came with complaints of pain and redness after history of accidentally knocking her right eye on the edge of the sink.

13.1 Describe the findings in the photo.

(4 marks)

[illegible]

13.2 What surgery do you think the patient has undergone?

(2 marks)

13.3 What is the diagnosis?

(2 marks)

.....

13.4 What is the management?

(2 marks)

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Station No.: 14

This 30-year-old patient complained of intermittent diplopia with drooping of eyelids. A bedside diagnostic test was performed and the pictures below show the patient's face before (left picture) and after (right picture) the test.

14.1 Name the likely test that was performed here.

(2 marks)

14.2 State the generic name of the drug given in this test.

(2 marks)

14.3 State **ONE** contraindication for this test.

(2 marks)

14.4 Briefly describe how this test is done.

(2 marks)

14.5 State the most likely diagnosis of this patient.

(2 marks)

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Station No.: 15

This is the photograph of the X-ray of Baby Anne, a two-day-old neonate, who was being ventilated.

Study the X-ray carefully and answer the following questions.

15.1 List **FOUR** most obvious abnormalities seen in the X-ray.

(4 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

15.2 State the most likely diagnosis based on the X-ray findings.

(2 marks)

15.3 List **TWO** other clinical features that you expect in Anne.

(2 marks)

- (i) _____
- (ii) _____

15.4 Describe briefly the immediate steps in the management of Anne

(2 marks)

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OSCE

Station No.: 16

INTERACTIVE STATION

Instructions to the candidate

You have performed an excisional biopsy of a breast lump two weeks ago on Mrs. Chan, a 45-year-old lady and she has now come to see you in the clinic for the histo-pathology report which states that she has an intra-ductal carcinoma.

Describe how you would proceed to tell her the result of the biopsy report.

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OSCE

Student No.: _____

Station No.: 16

CHECKLIST

(Breaking bad news; chaperone, second opinion)		Marks Allocated	Marks Obtained
1.	Mrs. Chan: Good morning doctor. Have you got my report? I have been so anxious about the outcome of the report.	2	
2.	Mrs. Chan: Are you sure of what you are saying. I can't believe it. I have had the lump only for a month.	2	
3.	Mrs. Chan: You don't think that the report could have been mixed up?	2	
4.	Mrs. Chan: Does the nurse have to be here?	2	
5.	Mrs. Chan: Can you recommend another doctor whom I could consult?	2	
Total =		10	

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Station No.: 17

INTERACTIVE STATION

Instructions to the candidate

Patient is Madam XX who is a 36-year-old schoolteacher currently in her 2nd pregnancy at 32 weeks POA. She had a previous LSCS due to a breech presentation.

She was admitted with complaint of painless per-vaginal bleeding and diagnosed with placenta praeviae.

You planned to admit her for observation until delivery.

Kindly explain to your patient the diagnosis and reasons for her admission. She may ask you a few questions regarding her problem.

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OSCE

Station No.: 17

INTERACTIVE STATION

Instructions to the patient

You are Madam XX who is a 36-year-old G2P1 with previous history of LSCS due to breech presentation.

You are admitted with history of painless per-vaginal bleeding at 32 weeks POA and diagnosed with placenta praeviae.

You are required to be admitted for observation until delivery date.

Questions to ask: (if students are not forth-coming)

- 1. What is my problem?**
- 2. Why I need to be admitted?**
- 3. What are you going to do with me during my stay in hospital?**
- 4. How and when are you going to deliver me?**
- 5. Any problems that I should be worried about during the LSCS?**

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OSCE

Student No.: _____

Station No.: 17

CHECKLIST

		Marks Allocated	Marks Obtained
1.	Introduction – introduction of self.	1	
2.	Eye contact and rapport – proper eye contact and able to build rapport with patient.	1	
3.	Use of “lay-man” term.	1	
4.	Knowledge assessment <ul style="list-style-type: none">i. Explanation of placenta praeviae.ii. Explanation regarding reasons of admission.iii. Explanation regarding procedure or management of patient while in the ward.iv. Explanation regarding mode, time of delivery and problem anticipated during operation.	1 1 1 2	
5.	Counselling assessment (by the simulated patient) <ul style="list-style-type: none">i. Able to allay patient anxiety.ii. Satisfied with candidate explanation.iii. Confidence with candidate.	0.5 0.5 1	
	Total =	10	

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Station No.: 18

This is the photograph of Tom, a four-year-old boy, who has a history of episodes of cough and shortness of breath, every two to three weeks. He was seen in the Emergency Department with a severe acute exacerbation of asthma.

Study this exhibit carefully and answer the following questions.

18.1 Name the most obvious physical abnormality seen in Tom's chest.

(2 marks)

18.2 List **FOUR** other features that you expect in Tom, that made the Medical Officer diagnosed that he had a severe exacerbation.

(4 marks)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

18.3 Briefly discuss the immediate management of Tom in the Emergency Department.

(4 marks)

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Station No.: 19

Carefully study the photograph taken during otoscopy in a 50-year-old farmer with one-day history of vertigo and no other ENT symptoms.

19.1 Describe **TWO** diagnostic abnormalities on the otoscopy.

(2 marks)

- (i) _____
(ii) _____

19.2 Name the side of the ear and give reason for naming the side.

(2 marks)

19.3 Name the diagnosis.

(2 marks)

19.4 Name the treatment.

(2 marks)

19.5 Name **TWO** most appropriate investigations relevant to the treatment.

(2 marks)

- (i) _____
(ii) _____

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Student No.: _____

Station No.: 20

The table shows the results of a test for cancer and the cancer status.

Test A	Cancer status based on gold standard			
	Result	Present	Absent	Total
	Positive	75	50	125
	Negative	15	850	865
	Total	90	900	990

20.1 Calculate the sensitivity rate of the test A.

(3 marks)

20.2 Calculate the specificity rate of test A.

(3 marks)

20.3 State the meaning of 'gold' standard and give an example.

(2 marks)

20.4 State the disadvantage of having a highly sensitive test.

(2 marks)
